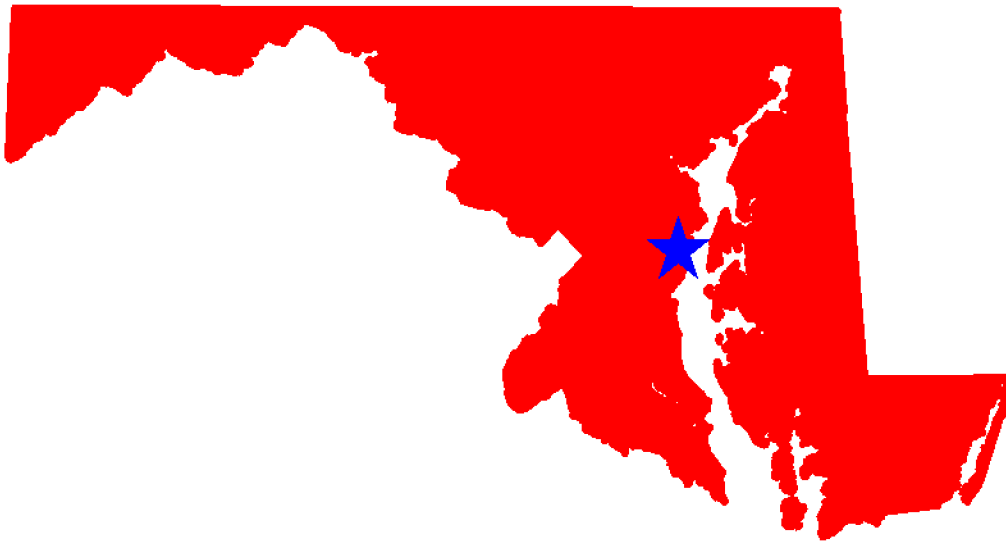




## Traffic Safety Facts Maryland 2004-2008



This Report Contains Data From the Following Sources:

Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2004-2007 Final File and 2008 Annual Report File (ARF)  
Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Maryland State Survey  
Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)  
Population Data - U.S. Bureau of the Census



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## Traffic Safety Performance (Core Outcome) Measures\* For Maryland

Core Outcome Measures		Year				
		2004	2005	2006	2007	2008
Traffic Fatalities	Total	643	614	652	614	591
	Rural	260	244	285	245	222
	Urban	383	370	364	369	368
	Unknown	0	0	3	0	1
Fatalities Per 100 Million Vehicle Miles Driven	Total	1.16	1.09	1.16	1.09	1.07
	Rural	1.88	1.68	1.97	1.68	1.59
	Urban	0.92	0.88	0.87	0.88	0.90
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	450	397	454	381	365
	Restrained	235	205	254	205	202
	Unrestrained	192	178	176	148	142
	Unknown	23	14	24	28	21
Alcohol-Impaired Driving Fatalities (BAC=.08+)**		211	165	189	178	152
Speeding-Related Fatalities		248	215	239	216	191
Motorcyclist Fatalities	Total	69	85	84	96	91
	Helmeted	57	76	72	83	81
	Unhelmeted	12	9	12	12	10
	Unknown	0	0	0	1	0
Drivers Involved in Fatal Crashes	Total	870	903	936	848	817
	Aged Under 15	0	1	0	1	1
	Aged 15-20	104	106	107	101	93
	Aged Under 21	104	107	107	102	94
	Aged 21 and Over	748	779	811	728	708
	Unknown Age	18	17	18	18	15
Pedestrian Fatalities		97	102	95	116	116

\*These Performance Measures Were Developed By The National Highway Traffic Safety Administration (NHTSA) and the Governors Highway Safety Association (GHSA) (See Publication: DOT HS 811 025)

\*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

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### Fatality Rates: Maryland , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2004	Maryland	643	55,284	1.16	5,538,989	11.61
	US	42,836	2,964,788	1.44	292,892,127	14.63
	Best State*			0.87		7.39
2005	Maryland	614	56,319	1.09	5,575,552	11.01
	US	43,510	2,989,430	1.46	295,560,549	14.72
	Best State*			0.80		6.85
2006	Maryland	652	56,302	1.16	5,602,258	11.64
	US	42,708	3,014,371	1.42	298,362,973	14.31
	Best State*			0.78		6.32
2007	Maryland	614	56,503	1.09	5,618,899	10.93
	US	41,259	3,032,399	1.36	301,290,332	13.69
	Best State*			0.79		6.55
2008	Maryland	591	55,023	1.07	5,633,597	10.49
	US	37,261	2,973,509	1.25	304,059,724	12.25
	Best State*			0.67		5.59

\*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

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Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash\*\*:  
 Maryland , U.S. and Best State  
 (Old Definition)

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash				
			BAC = .01+		BAC = .08+		Per 100 Million VMT
			Number	Percent	Number	Percent	
2004	Maryland	643	286	44	234	36	0.42
	US	42,836	16,919	39	14,593	34	0.49
	Best State*			25		21	0.27
2005	Maryland	614	239	39	194	32	0.34
	US	43,510	17,590	40	15,102	35	0.51
	Best State*			14		12	0.14
2006	Maryland	652	266	41	218	33	0.39
	US	42,708	17,738	42	15,144	35	0.50
	Best State*			24		20	0.22
2007	Maryland	614	263	43	212	35	0.38
	US	41,259	17,158	42	14,603	35	0.48
	Best State*			24		21	0.23
2008	Maryland	591	235	40	196	33	0.36
	US	37,261	15,438	41	13,294	36	0.45
	Best State*			21		16	0.16

\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

\*\*Based on the BAC of All Involved Drivers, Motorcycle Riders (Operators), Pedalcyclists and Pedestrians

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Alcohol-Impaired Driving Fatalities\*\*:  
Maryland , U.S. and Best State  
(New Definition)

Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2004	Maryland	643	211	33	0.38
	US	42,836	13,099	31	0.44
	Best State*			20	0.25
2005	Maryland	614	165	27	0.29
	US	43,510	13,582	31	0.45
	Best State*			12	0.13
2006	Maryland	652	189	29	0.34
	US	42,708	13,491	32	0.45
	Best State*			18	0.20
2007	Maryland	614	178	29	0.32
	US	41,259	13,041	32	0.43
	Best State*			19	0.21
2008	Maryland	591	152	26	0.28
	US	37,261	11,773	32	0.40
	Best State*			16	0.16

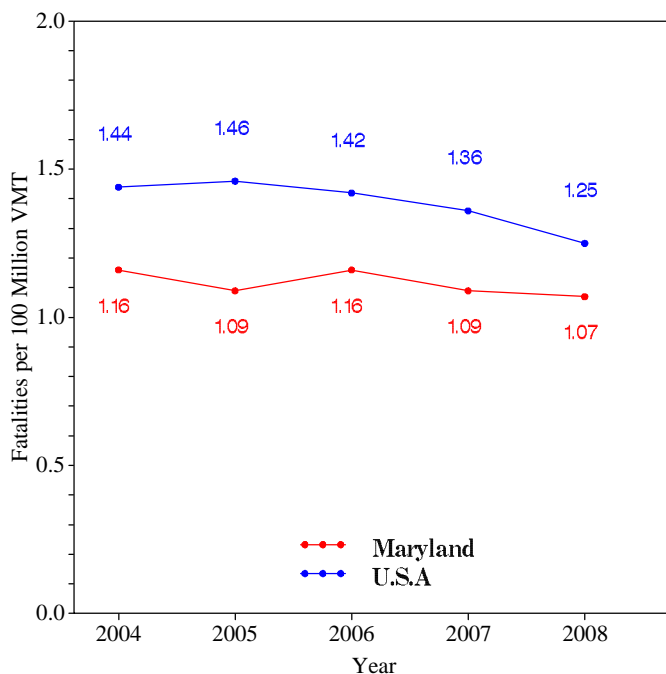
\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

\*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

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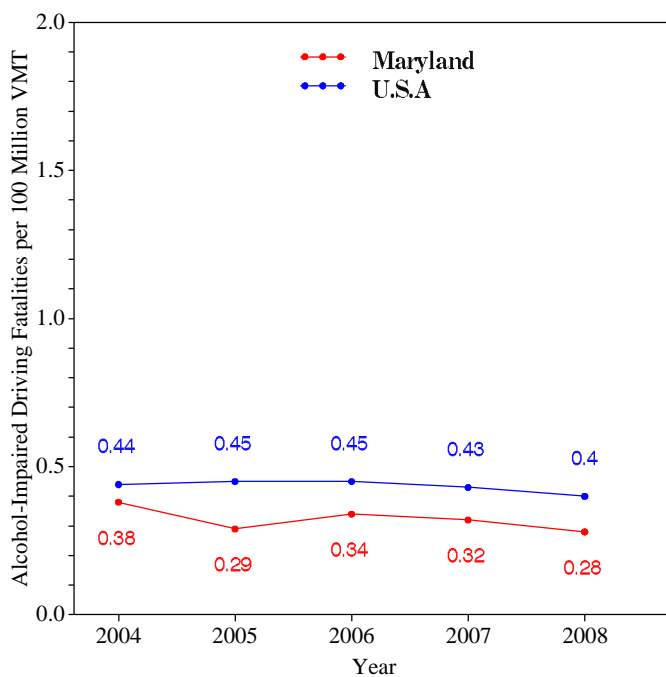


## Fatalities per 100 Million VMT



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## Alcohol-Impaired Driving Fatalities per 100 Million VMT



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**Blood Alcohol Concentration (BAC) Reporting Rates**  
**For Drivers/Motorcycle Riders (Operators)**  
**Involved in Fatal Crashes:**  
**Maryland , U.S. and Best State**

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2004	Maryland	481	80	17	389	332	85	870	412	47
	US	31,524	8,215	26	26,871	18,275	68	58,395	26,490	45
	Best State*			80			97			82
2005	Maryland	528	70	13	375	333	89	903	403	45
	US	31,729	7,415	23	27,491	18,773	68	59,220	26,188	44
	Best State*			77			98			84
2006	Maryland	507	69	14	429	376	88	936	445	48
	US	30,498	7,482	25	27,348	18,911	69	57,846	26,393	46
	Best State*			81			99			85
2007	Maryland	478	89	19	370	328	89	848	417	49
	US	29,449	7,631	26	26,570	19,434	73	56,019	27,065	48
	Best State*			82			100			84
2008	Maryland	460	35	8	357	300	84	817	335	41
	US	26,011	6,677	26	24,175	17,045	71	50,186	23,722	47
	Best State*			80			95			84

\*State (or States) With Highest Percents: Highest Percents Could Be in Different States

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Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use:  
Fatalities and Observed  
Maryland , U.S. and Best State

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2004	Maryland	66	89
	US	56	80
	Best State*	82	95
2005	Maryland	62	91
	US	55	82
	Best State*	88	95
2006	Maryland	71	91
	US	55	81
	Best State*	77	96
2007	Maryland	64	93
	US	57	82
	Best State*	82	98
2008	Maryland	71	93
	US	56	83
	Best State*	78	97

\*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

\*\*Percent Based Only Where Restraint Use Was Known

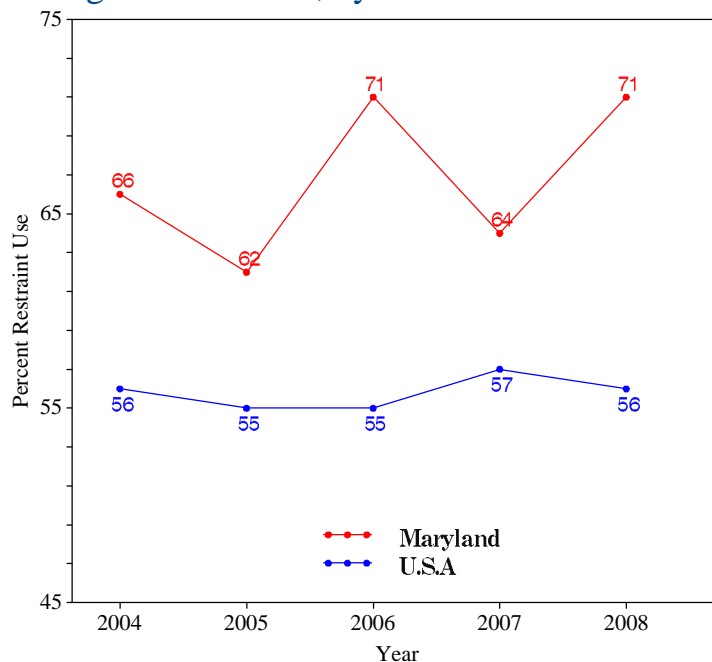
\*\*\*USA Data: National Occupant Protection Use Survey. Maryland Data: State Survey

Note: The Purpose of this Table is to Compare (as closely as possible) the Use of Restraint Systems by Fatally Injured Occupants with Occupants in all Driving Situations

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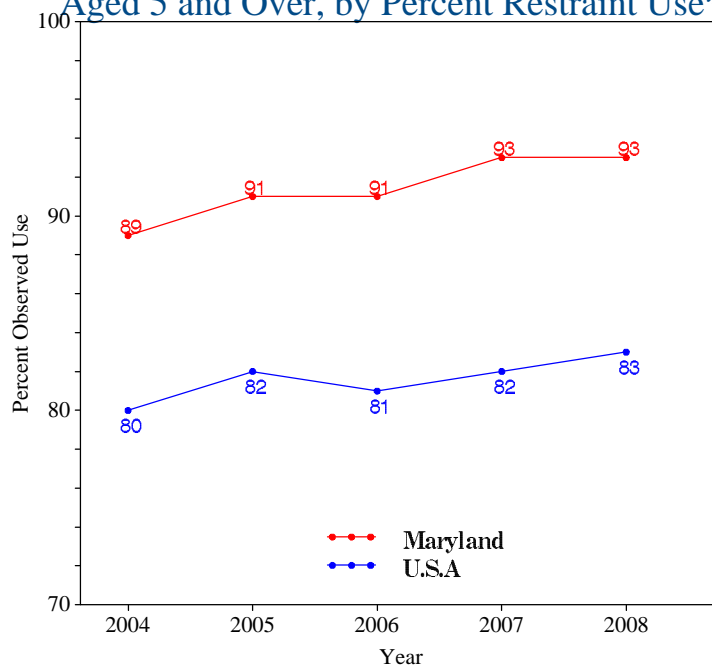
### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use\*



\*Percent Based Only Where Restraint Use Was Known

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### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use\*



\*USA Data: National Occupant Protection Use Survey. Maryland Data: State Survey

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### Passenger Vehicle Occupant Fatalities Age 5 and Above by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Additional Lives Savable at 100% Belt Usage
2004	442	230	189	23	55	246	55
2005	389	201	175	13	53	226	42
2006	449	251	174	24	59	292	58
2007	379	203	148	28	58	254	38
2008	363	200	142	21	58	240	41

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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### Passenger Vehicle Occupant Fatalities Age 4 and Under by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 4 and Under					Lives Saved Estimates**
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Seat Belt and Child Safety Seat Usage
2004	7	5	2	0	71	6
2005	6	3	3	0	50	6
2006	3	2	1	0	67	3
2007	2	2	0	0	100	3
2008	2	2	0	0	100	2

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates

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### Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmeted*	Lives Saved at Current Helmet Use	Additional Lives Savable at 100% Helmet Usage
2004	69	57	12	0	83	34	4
2005	85	76	9	0	89	45	4
2006	84	72	12	0	86	43	4
2007	96	83	12	1	87	50	4
2008	91	81	10	0	89	48	4

\*Percent Based Only Where Helmet Use Was Known

\*\*Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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## Fatalities by Person Type

Person Type		2004		2005		2006		2007		2008	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	311	48	274	45	316	48	254	41	239	40
	Light Truck - Pickup	57	9	41	7	47	7	52	8	41	7
	Light Truck - Utility	58	9	60	10	65	10	52	8	51	9
	Light Truck - Van	23	4	22	4	26	4	22	4	34	6
	Light Truck - Other	1	0	0	0	0	0	1	0	0	0
	Large Truck	10	2	9	1	8	1	9	1	7	1
	Bus	0	0	1	0	0	0	0	0	0	0
	Other/Unknown Occupants	3	0	9	1	4	1	3	0	3	1
	<i>Total Occupants</i>	463	72	416	68	466	71	393	64	375	63
Motorcyclists	<i>Total Motorcyclists</i>	69	11	85	14	84	13	96	16	91	15
Nonoccupants	Pedestrian	97	15	102	17	95	15	116	19	116	20
	Bicyclist and Other Cyclist	12	2	7	1	7	1	7	1	6	1
	Other/Unknown Nonoccupants	2	0	4	1	0	0	2	0	3	1
	<i>Total Nonoccupants</i>	111	17	113	18	102	16	125	20	125	21
<b>Total</b>	<b>Total</b>	643	100	614	100	652	100	614	100	591	100

\*Sum of Percents May Not = 100 Due to Individual Cell Rounding

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## Fatalities by Crash Type

Crash Type	2004	2005	2006	2007	2008
<b>Total Fatalities (All Crashes)*</b>	643	614	652	614	591
<b>- (1) Single Vehicle</b>	361	325	335	355	313
<b>- (2) Involving a Large Truck</b>	83	60	61	69	60
<b>- (3) Involving Speeding</b>	248	215	239	216	191
<b>- (4) Involving a Rollover</b>	125	79	104	75	74
<b>- (5) Involving a Roadway Departure</b>	304	289	349	321	283
<b>- (6) Involving an Intersection (or Intersection Related)</b>	133	165	151	120	141

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

\*A Fatality Can Be in More Than One Category. Therefore Sum of the Individual Cells Will Not Equal the Total Due to Double Counting

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### Motorcyclist Fatalities by Age

Year	Age						Total
	<20	20-29	30-39	40-49	50-59	>59	
2004	4	27	14	15	9	0	69
2005	5	25	25	17	11	2	85
2006	2	24	24	19	11	4	84
2007	7	28	27	18	10	6	96
2008	6	25	20	21	15	4	91

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### Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2004	69	72,844	94.72
2005	85	76,230	111.5
2006	84	72,625	115.7
2007	96	78,342	122.5
2008	91	79,579	114.4

\*Data Source: FHWA

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## Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2004	2005	2006	2007
Occupants (All Vehicle Types)	Hispanic	26	12	14	9
	White Non-Hispanic	313	322	342	310
	Black, Non-Hispanic	105	113	128	134
	American Indian, Non-Hispanic/Unknown	0	0	1	1
	Asian, Non-Hispanic/Unknown	1	0	0	0
	All Other Non-Hispanic or Race	11	14	13	15
	Unknown Race and Unknown Hispanic	76	40	52	20
	<b>Total</b>	532	501	550	489
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	3	2	2	7
	White Non-Hispanic	47	60	47	65
	Black, Non-Hispanic	37	40	29	39
	American Indian, Non-Hispanic/Unknown	1	0	0	0
	Asian, Non-Hispanic/Unknown	1	0	2	0
	All Other Non-Hispanic or Race	5	1	2	6
	Unknown Race and Unknown Hispanic	17	10	20	8
	<b>Total</b>	111	113	102	125
<b>Total</b>		643	614	652	614

2008 Race/Hispanic Origin Data is Not Yet Complete

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### 5 Year Trend For The Top 10 Counties of 2008 - Fatalities

Counties by 2008 Ranking		Fatalities					Percent of Total				
		2004	2005	2006	2007	2008	2004	2005	2006	2007	2008
1	Prince Georges	120	134	111	125	130	19	22	17	20	22
2	Baltimore County	81	73	66	72	70	13	12	10	12	12
3	Montgomery County	79	44	58	48	51	12	7	9	8	9
4	Anne Arundel County	52	54	62	48	49	8	9	10	8	8
5	Baltimore City	44	34	45	47	48	7	6	7	8	8
6	Howard County	33	18	23	20	22	5	3	4	3	4
7	Carroll County	19	21	25	21	21	3	3	4	3	4
8	Frederick County	28	33	33	25	21	4	5	5	4	4
9	Harford County	19	22	24	29	21	3	4	4	5	4
10	Worcester County	12	10	11	11	18	2	2	2	2	3
<b>Sub Total 1.*</b>	<b>Top Ten Counties</b>	502	476	485	460	451	78	78	74	75	76
<b>Sub Total 2.**</b>	<b>All Other Counties</b>	141	138	167	154	140	22	22	26	25	24
<b>Total</b>	<b>All Counties</b>	643	614	652	614	591	100	100	100	100	100

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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## 5 Year Trend For The Top 10 Counties of 2008 - Fatalities Year to Year Percent Change

Counties by 2008 Ranking		Fatalities					Percent Change From Previous Year			
		2004	2005	2006	2007	2008	2005	2006	2007	2008
1	Prince Georges	120	134	111	125	130	12	-17	13	4
2	Baltimore County	81	73	66	72	70	-10	-10	9	-3
3	Montgomery County	79	44	58	48	51	-44	32	-17	6
4	Anne Arundel County	52	54	62	48	49	4	15	-23	2
5	Baltimore City	44	34	45	47	48	-23	32	4	2
6	Howard County	33	18	23	20	22	-45	28	-13	10
7	Carroll County	19	21	25	21	21	11	19	-16	0
8	Frederick County	28	33	33	25	21	18	0	-24	-16
9	Harford County	19	22	24	29	21	16	9	21	-28
10	Worcester County	12	10	11	11	18	-17	10	0	64
<b>Sub Total 1.*</b> <i>Top Ten Counties</i>		502	476	485	460	451	-5	2	-5	-2
<b>Sub Total 2.**</b> <i>All Other Counties</i>		141	138	167	154	140	-2	21	-8	-9
<b>Total</b> <i>All Counties</i>		643	614	652	614	591	-5	6	-6	-4

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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## 5 Year Trend For The Top 10 Counties of 2008 - Fatality Rates

Median Rate for all U.S. Counties: 19.59

Counties by 2008 Ranking		Fatalities Per 100,000 Population				
		2004	2005	2006	2007	2008
1	Worcester County	24.56	20.50	22.42	22.33	36.53
2	Caroline County	35.79	31.76	43.47	15.25	33.19
3	Queen Anne	20.21	15.55	19.64	25.80	25.48
4	Kent County	15.31	5.06	30.31	40.24	24.81
5	Talbot County	17.06	19.66	16.65	33.21	19.33
6	Dorchester County	22.69	19.28	12.76	9.42	18.75
7	Cecil County	28.52	21.73	22.33	22.14	17.01
8	Garrett County	40.25	26.97	13.51	26.99	16.84
9	Prince Georges	14.41	16.04	13.35	15.15	15.84
10	St. Mary	4.22	14.45	17.26	9.97	15.75
<b>Sub Rate 1.* Top Ten Counties</b>		22.95	18.63	21.97	21.41	17.88
<b>Sub Rate 2.** All Other Counties</b>		10.45	8.55	9.90	9.59	8.34
<b>Total Rate All Counties</b>		11.61	11.01	11.64	10.93	10.49

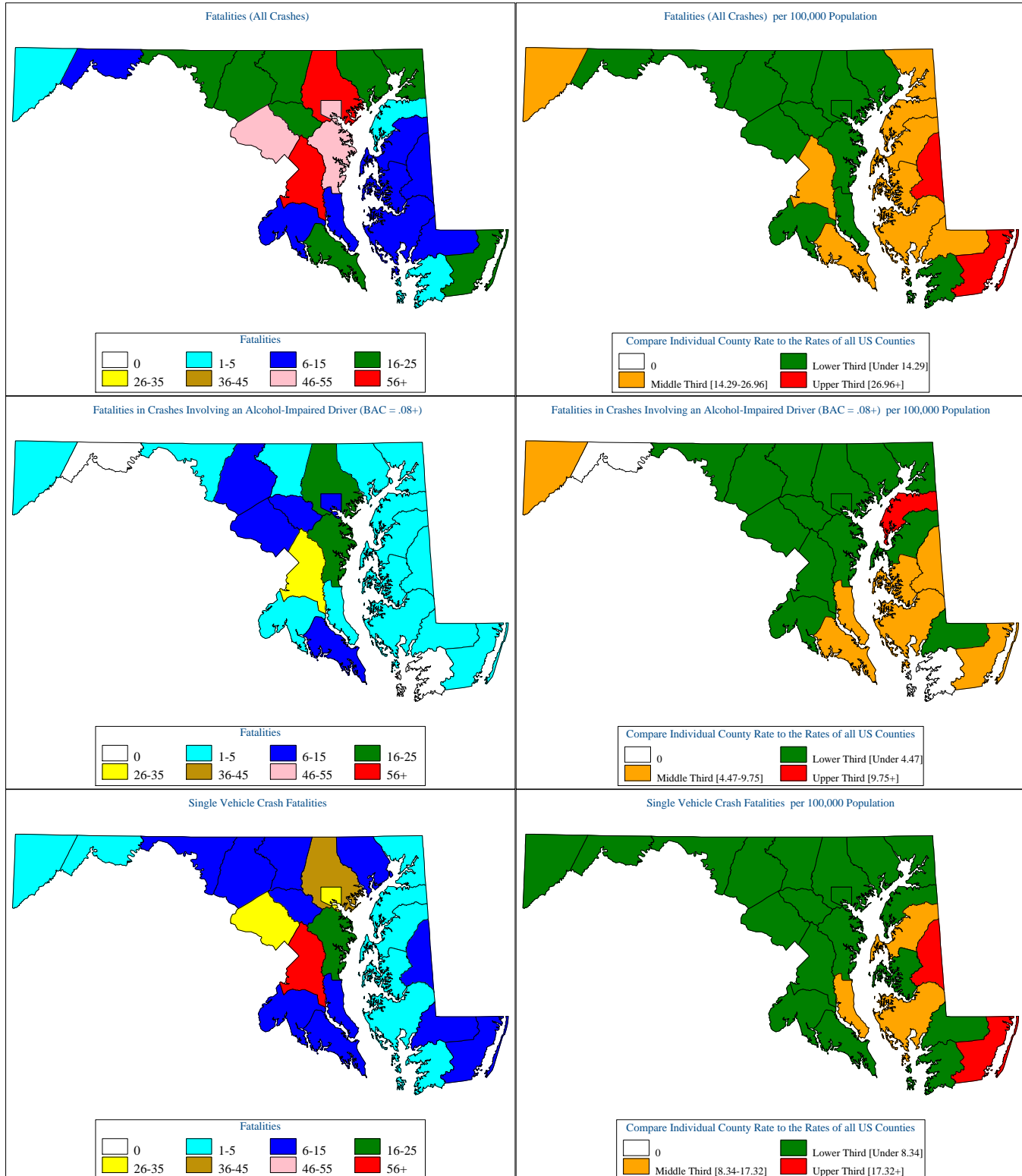
\*This Sub Rate is the Rate for the Top Ten Counties

\*\*This Sub Rate is the Rate for all Counties Outside the Top Ten

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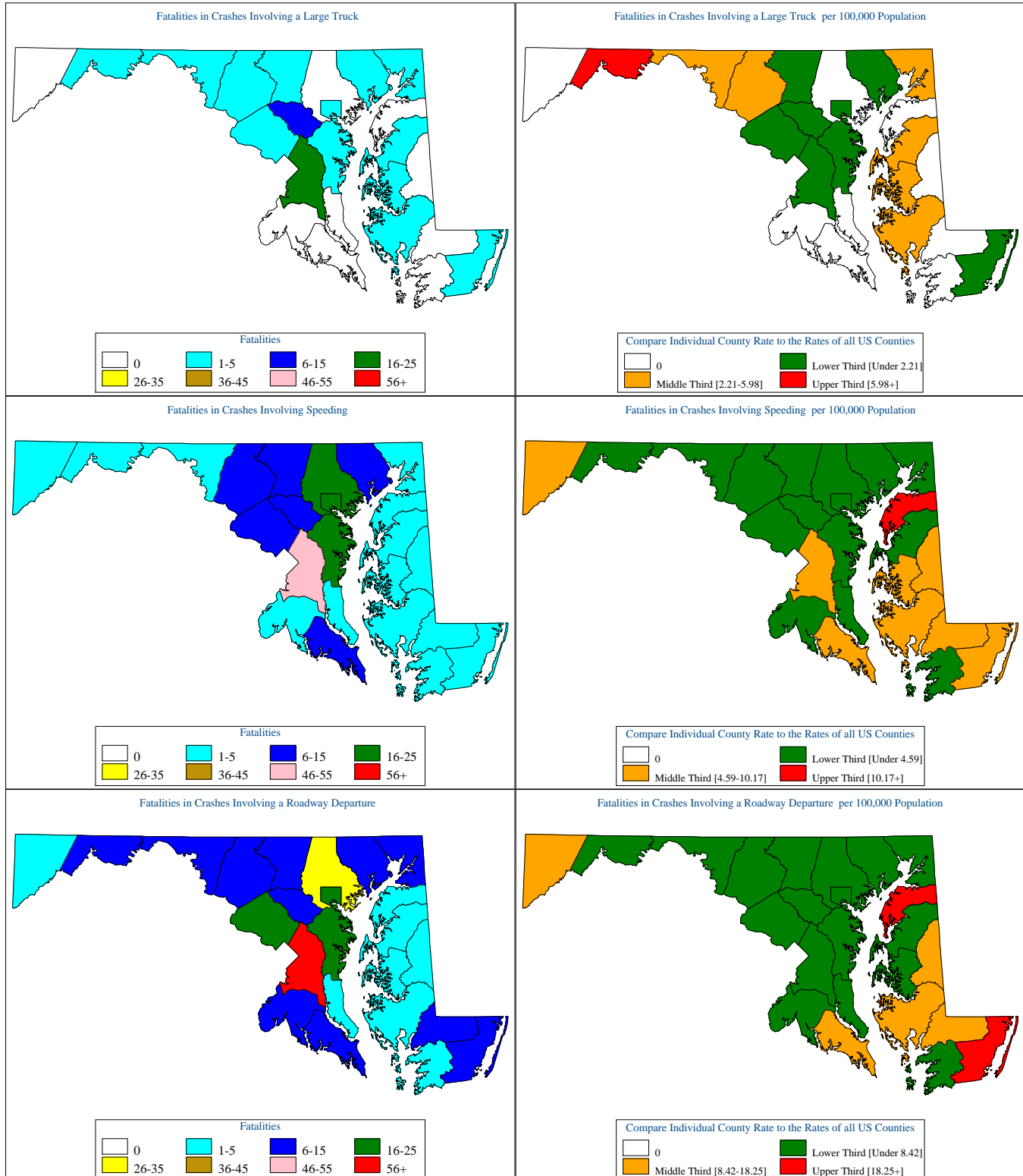
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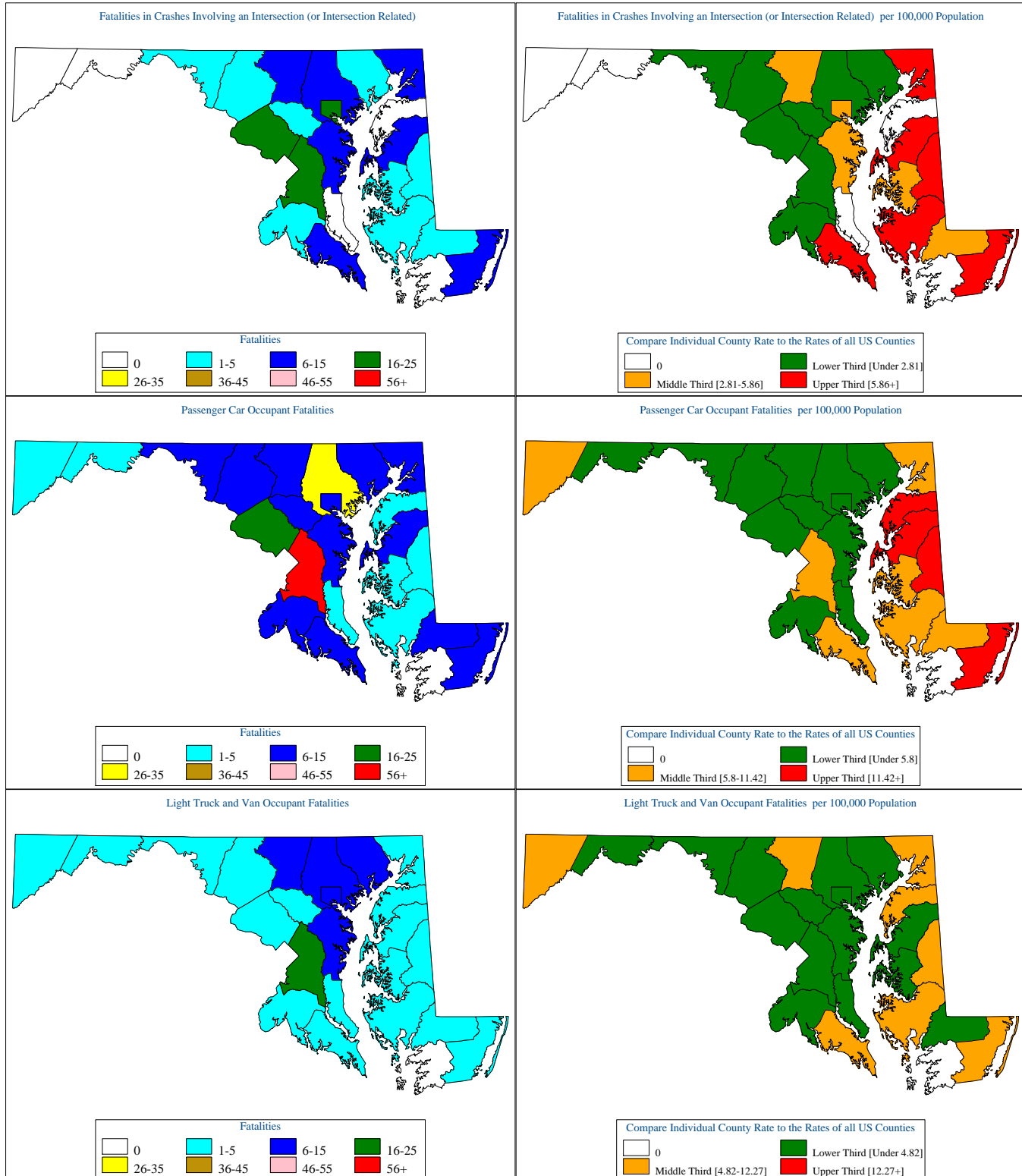
## Maryland Motor Vehicle Crash Fatality Maps for 2008



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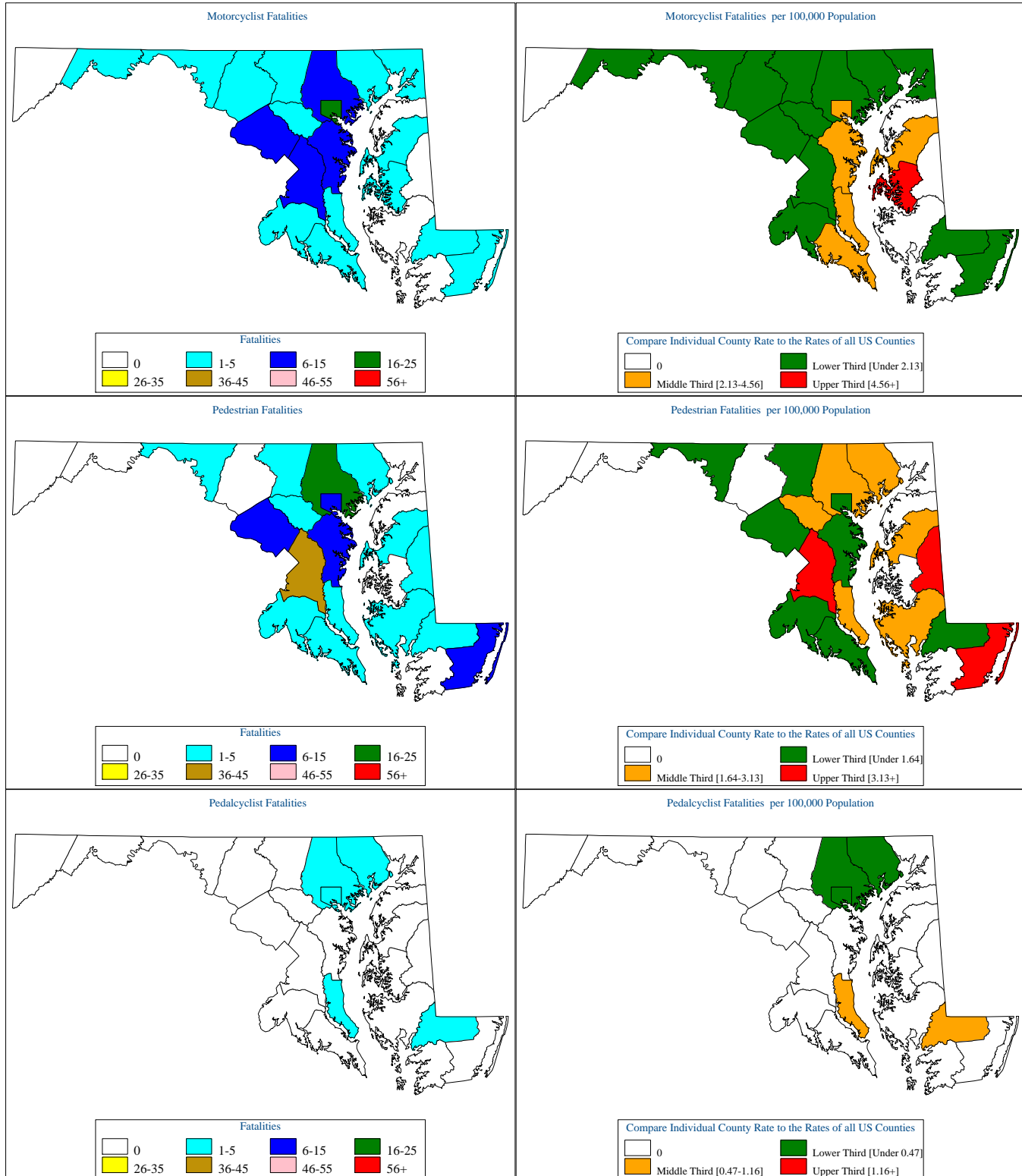
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## Maryland Motor Vehicle Crash Fatality Maps for 2008



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